

FIG. 1
(Prior Art)

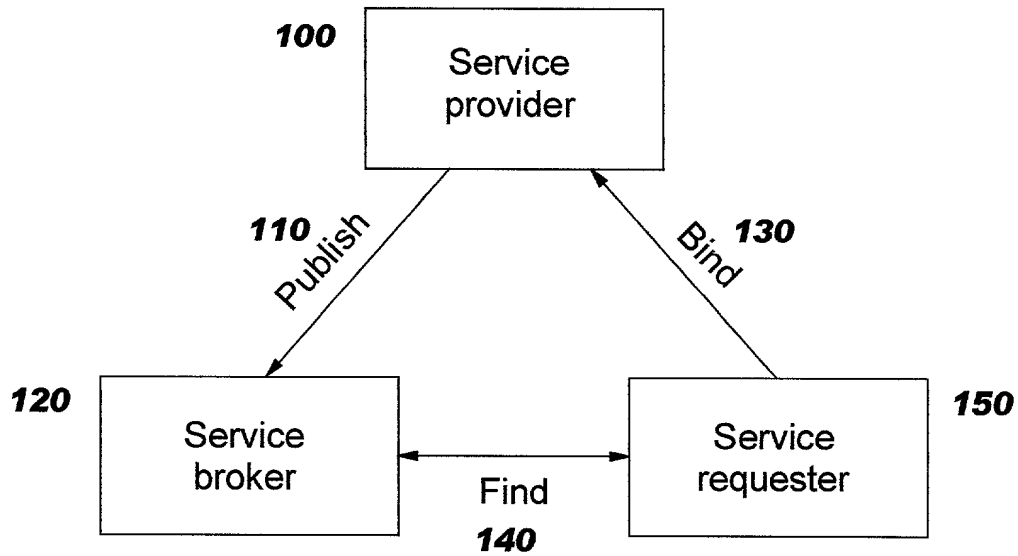


FIG. 2

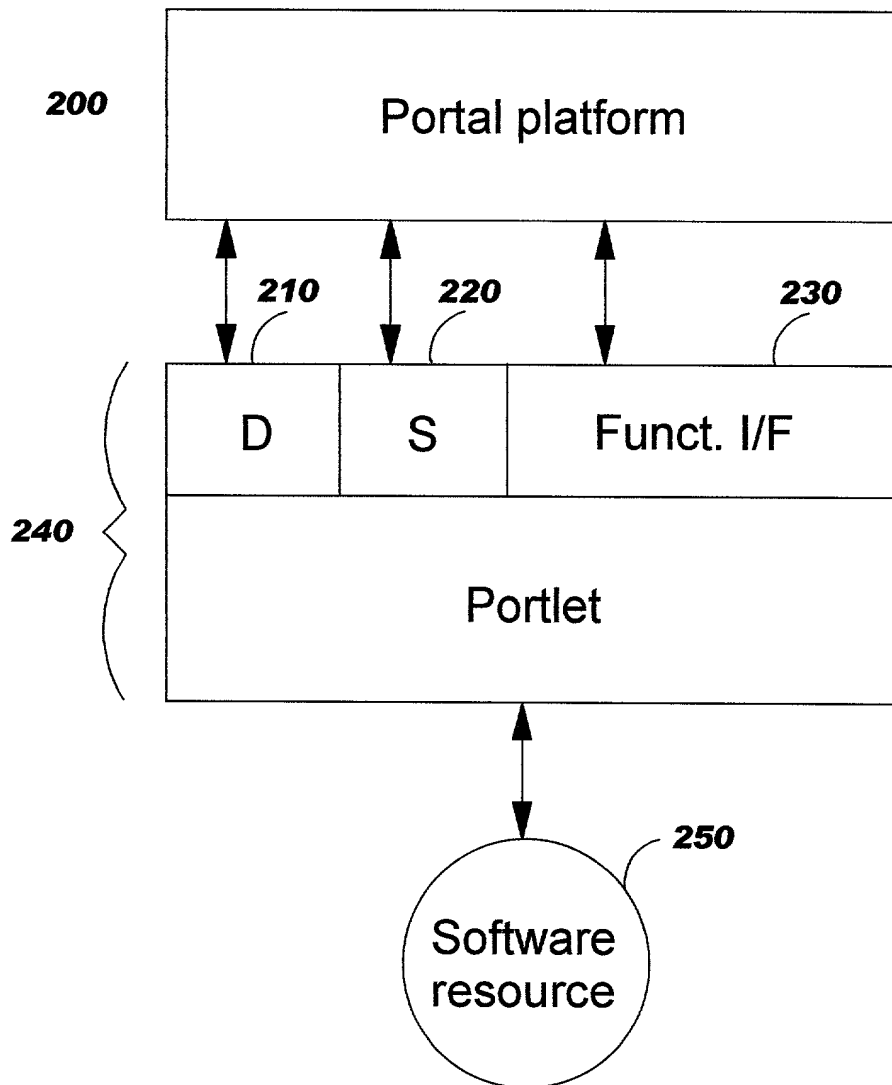


FIG. 3A

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```
<?xml version="1.0"?>
<definitions
  name="Deployment"
  targetNamespace="http://portal-definitions/Deployment.wsdl"
  xmlns:tns="http://portal-definitions/Deployment.wsdl"
  xmlns:wsfl="http://schemas.xmlsoap.org/wsfl/"
  xmlns="http://schemas.xmlsoap.org/wsdl/">
```

320

```
<message name="getDisplayNameInput">
  <part name="displayNameInput" element="xsd:nil"/>
</message>
<message name="getDisplayNameOutput">
  <part name="displayNameOutput" element="xsd:string"/>
</message>
<message name="getDisplayIcon16x16Input">
  <part name="displayIcon16x16Input" element="xsd:nil"/>
</message>
<message name="getDisplayIcon16x16Output">
  <part name="displayIcon16x16Output" element="xsd:image"/>
</message>
```

...

330

```
<portType name="DeploymentPortType">
  <operation name="displayName">
    <input message="tns:getDisplayNameInput"/>
    <output message="tns:getDisplayNameOutput"/>
  </operation>
  <operation name="getDisplayIcon16x16">
    <input message="tns:getDisplayIcon16x16Input"/>
    <output message="tns:getDisplayIcon16x16Output"/>
  </operation>
  ...
</portType>
</definitions>
```

FIG. 3B1

FIG. 3B1

FIG. 3B2

FIG. 3B

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```
<?xml version="1.0"?>
<definitions
  name="System"
  targetNamespace="http://portal-definitions/System.wsdl"
  xmlns:tns="http://portal-definitions/System.wsdl"
  xmlns:wsfl="http://schemas.xmlsoap.org/wsfl/"
  xmlns="http://schemas.xmlsoap.org/wsdl/">
```

370

```
<types>
  <schema xmlns="http://www.w3.org/2000/10/XMLSchema">
    <element name="Event">
      <complexType>
        <all>
          <element name="uuid" type="xsd:string/>
          <element name="type" type="xsd:string/>
          <element name="when" type="xsd:date/>
        </all>
      </complexType>
    </element>
  </schema>
</types>
```

...

FIG. 3B2

```
380 <message name="logEventReceive">
    <part name="logEventInput" element="tns:Event"/>
</message>
<message name="reportInput">
    <part name="reportUsageResource" element="xsd:string"/>
    <part name="reportUsageQuantity" element="xsd:integer"/>
</message>
<message name="reportOutput">
    <part name="reportReturnCode" element="xsd:string"/>
</message>
...
390 <portType name="SystemPortType">
    <operation name="logEvent">
        <input message="tns:logEventReceive"/>
    </operation>
    <operation name="reportUsage">
        <input message="tns:reportInput"/>
        <output message="tns:reportOutput"/>
    </operation>
...
</portType>
...
</definitions>
```

FIG. 4

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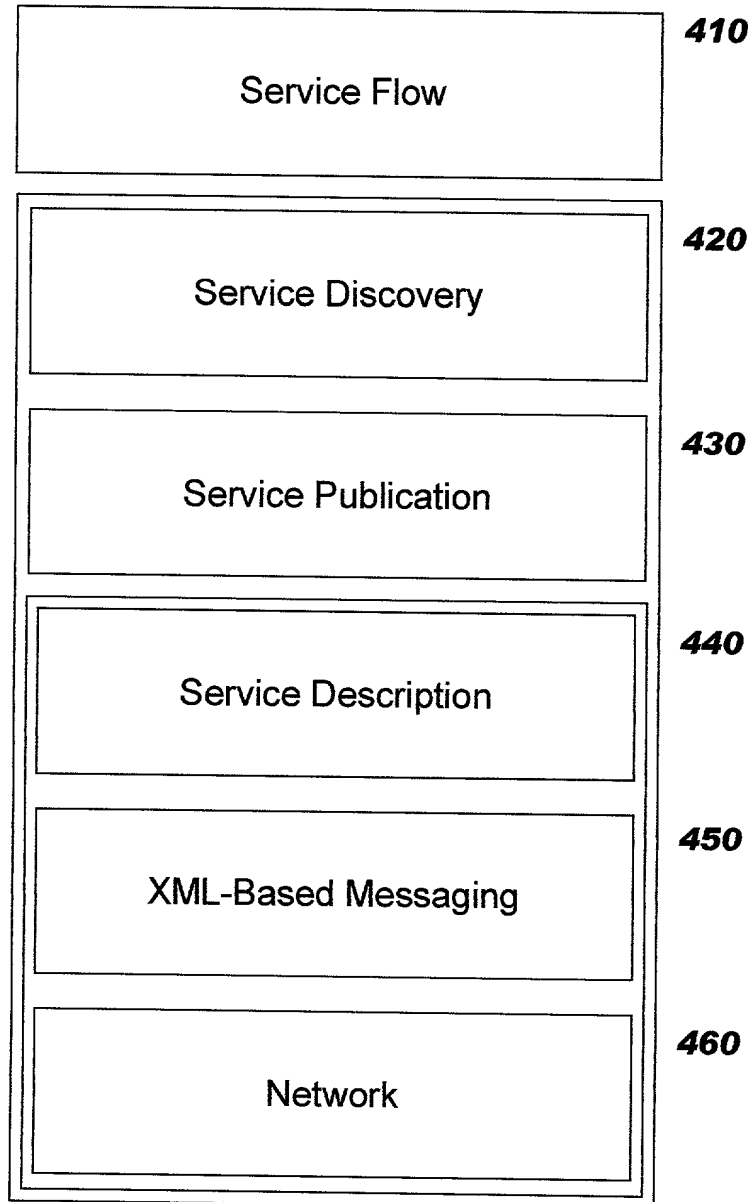


FIG. 5A

500

502 <message name="InResolveProvisioningIDRequest">
 <part name="authToken" type="xsd:string"/>
 </message>

504 <message name="OutResolveProvisioningIDResponse">
 <part name="Identifier" type="xsd:string"/>
 </message>

506 <message name="InResolveUsersRequest">
 <part name="authToken" type="xsd:string"/>
 <part name="provID" type="xsd:string"/>
 </message>

508 <message name="OutResolveUsersResponse">
 <part name="UserSet" type="SOAP-ENC:Array"/>
 </message>

510 <message name="InCreateUserProfileRequest">
 <part name="authToken" type="xsd:string"/>
 <part name="provID" type="xsd:string"/>
 <part name="userID" type="xsd:string"/>
 <part name="password" type="xsd:string"/>
 <part name="FullName" type="xsd:string"/>
 <part name="accessRights" type="SOAP-ENC:Array"/>
 </message>

512 <message name="OutCreateUserProfileResponse">
 <part name="result" type="xsd:boolean"/>
 </message>

FIG. 5B

514 <message name="InQueryUserProfileRequest">
 <part name="authToken" type="xsd:string"/>
 <part name="provID" type="xsd:string"/>
 <part name="userID" type="xsd:string"/>
</message>

516 <message name="OutQueryUserProfileResponse">
 <part name="password" type="xsd:string"/>
 <part name="FullName" type="xsd:string"/>
 <part name="accessRights" type="SOAP-ENC:Array"/>
</message>

518 <message name="InUpdateUserProfileRequest">
 <part name="authToken" type="xsd:string"/>
 <part name="provID" type="xsd:string"/>
 <part name="userID" type="xsd:string"/>
 <part name="password" type="xsd:string"/>
 <part name="FullName" type="xsd:string"/>
 <part name="accessRights" type="SOAP-ENC:Array"/>
</message>

520 <message name="OutUpdateUserProfileResponse">
 <part name="result" type="xsd:boolean"/>
</message>

522 <message name="InDeleteUserProfileRequest">
 <part name="authToken" type="xsd:string"/>
 <part name="provID" type="xsd:string"/>
 <part name="userID" type="xsd:string"/>
</message>

FIG. 5C

524 <message name="OutDeleteUserProfileResponse">
 <part name="result" type="xsd:boolean"/>
</message>

526 <message name="InSetConfigParameterRequest">
 <part name="authToken" type="xsd:string"/>
 <part name="provID" type="xsd:string"/>
 <part name="userID" type="xsd:string"/>
 <part name="parameterName" type="xsd:string"/>
 <part name="parameterValue" type="xsd:string"/>
</message>

528 <message name="OutSetConfigParameterResponse">
 <part name="result" type="xsd:boolean"/>
</message>

530 <message name="InGetConfigParameterRequest">
 <part name="authToken" type="xsd:string"/>
 <part name="provID" type="xsd:string"/>
 <part name="userID" type="xsd:string"/>
 <part name="parameterName" type="xsd:string"/>
</message>

532 <message name="OutGetConfigParameterResponse">
 <part name="parameterValue" type="xsd:string"/>
</message>

FIG. 5D

```
550 <portType name="ProvisioningService">
552   <operation name="ResolveProvisioningID">
      <input message="InResolveProvisioningIDRequest"/>
      <output message="OutResolveProvisioningIDResponse"/>
    </operation>

554   <operation name="ResolveUsers">
      <input message="InResolveUsersRequest"/>
      <output message="OutResolveUsersResponse"/>
    </operation>

556   <operation name="CreateUserProfile">
      <input message="InCreateUserProfileRequest"/>
      <output message="OutCreateUserProfileResponse"/>
    </operation>

558   <operation name="QueryUserProfile">
      <input message="InQueryUserProfileRequest"/>
      <output message="OutQueryUserProfileResponse"/>
    </operation>

560   <operation name="UpdateUserProfile"/>
      <input message="InUpdateUserProfileRequest"/>
      <output message="OutUpdateUserProfileResponse"/>
    </operation>
```

FIG. 5E

562

```
<operation name="DeleteUserProfile"/>  
  <input message="InDeleteUserProfileRequest"/>  
  <output message="OutDeleteUserProfileResponse"/>  
</operation>
```

564

```
<operation name="SetConfigParameter">  
  <input message="InSetConfigParameterRequest"/>  
  <output message="OutSetConfigParameterResponse"/>  
</operation>
```

566

```
<operation name="GetConfigParameter"/>  
  <input message="InGetConfigParameterRequest"/>  
  <output message="OutGetConfigParameterResponse"/>  
</operation>  
</portType>
```

FIG. 6

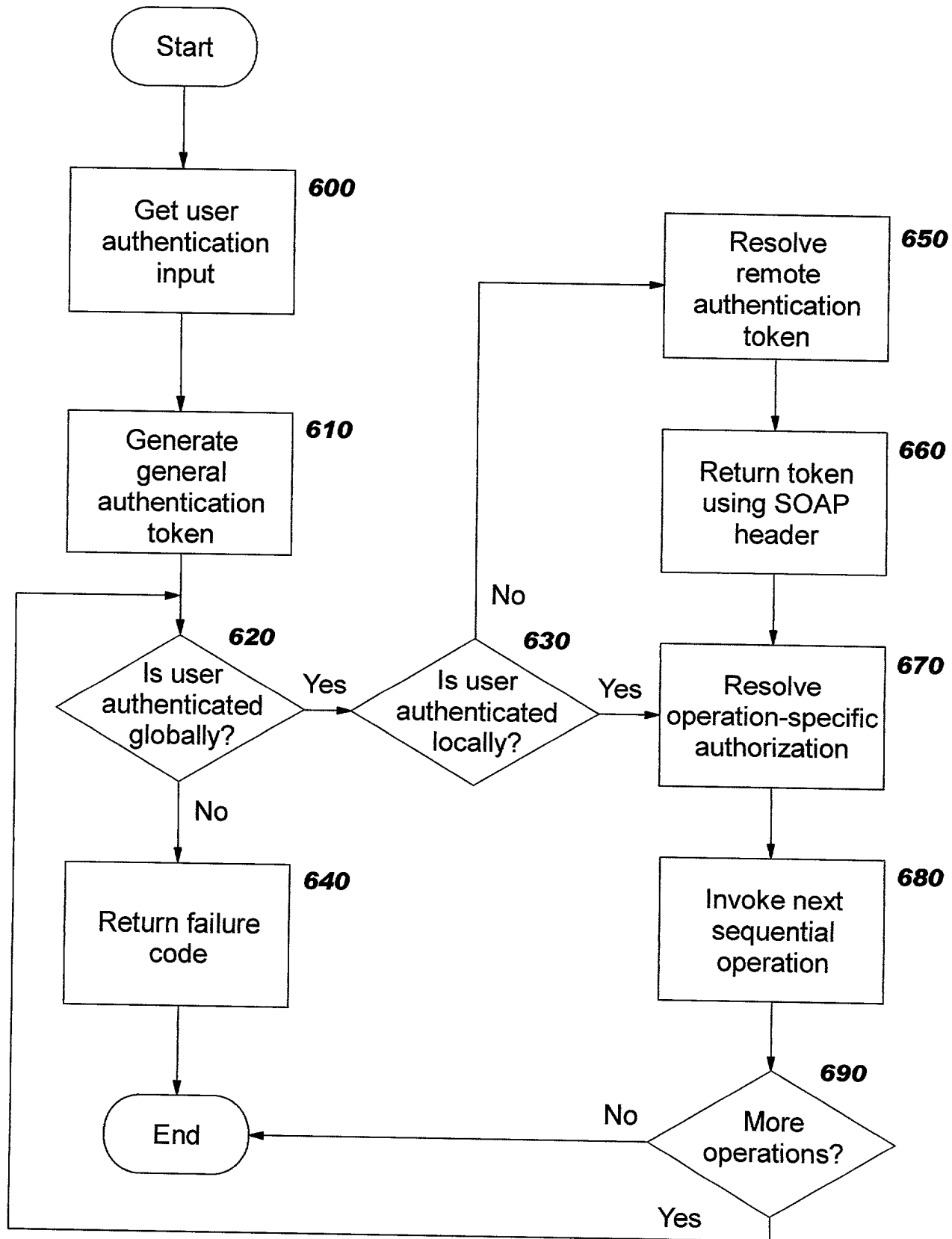


FIG. 7A
(Prior Art)

700

```

SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
<SOAP-ENV:Header>
  <SOAP-SEC:Signature xmlns:SOAP-SEC="http://schemas.xmlsoap.org/soap/security/2000-12"
    SOAP-ENV:actor="some-URI"
    SOAP-ENV:mustUnderstand="1">
    <ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
      <ds:SignedInfo>
        <ds:CanonicalizationMethod Algorithm="http://www.w3.org/TR/2000/CR-xml-c14n-20001026">
        </ds:CanonicalizationMethod>
        <ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#dsa-sha1">
        <ds:Reference URI="#Body">
          <ds:Transforms>
            <ds:Transform Algorithm="http://www.w3.org/TR/2000/CR-xml-c14n-20001026"/>
          </ds:Transforms>
          <ds:DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
          <ds:DigestValue>j6lwx3rvEPO0vKtMup4NbeVu8nk=</ds:DigestValue>
        </ds:Reference>
        </ds:SignedInfo>
        <ds:SignatureValue>MC0CFFrVLTrik=...</ds:SignatureValue>
      </ds:Signature>
    </SOAP-SEC:Signature>
  </SOAP-ENV:Header>
  
```

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FIG. 7B
(Prior Art)

